Amendment to the Claims

- 1. 6. (cancelled):
- 7. (currently amended): An apparatus for providing connectivity to the Internet over a high speed access network, said apparatus comprising:

 a) a protocol stack for receiving a request from a computer device for an ID.
- a) a protocol stack for receiving a request from a computer device for an IP address, wherein said request comprising point-to-point protocol (PPP) messages encapsulated over Ethernet packets is in a format compatible with a wide area network; and
- b) a translator for translating said <u>PPP messages into dynamic host configuration protocol (DHCP) messages to request an IP address request from said format compatible with a wide area network into a local area network compatible request.</u>
- 8. (cancelled)
- 9. (original): The apparatus of claim 7 wherein said apparatus supports a connection to a twisted wire pair network using xDSL transmission.
- 10. (original): The apparatus of claim 7 wherein said apparatus supports a connection to a hybrid fiber coaxial cable network.
- 11. (original): A method for use in a network environment for an assignment of Internet Protocol (IP) address, the method comprising:
- a) establishing a local Point-to-Point Protocol (PPP) session between a computer device and a local network interface device to acquire an IP address for the computer device;
- b) using a Dynamic Host Configuration Protocol (DHCP) between the local network interface device and a remote server to acquire the IP address; and
 - c) relaying said IP address to the computer device using a PPP-based message.
- 12. (original): The method of claim 11 further comprising:
- d) periodically sending from the local network interface device a lease renewal message to the server to renew the IP address.

- 13. (original): A proxy method for a universal access mechanism to a broadband access system, the method comprising:
 - a) requesting a connection to a broadband access network through a network interface device from a Local Area Network (LAN) -attached device;
 - b) establishing a Point-to-Point Protocol Over Ethernet (PPPoE)
 connection to an access server connected to said broadband access network:
 - c) performing protocol encapsulation and de-encapsulation for relaying messages transmitted between the broadband access network and the LAN-attached device for the duration of the PPPoE connection.